RESEARCH CENTER PUBLICATIONS

Albrecht, S.L. 1997. Eukaryotic algae and cyanobacteria. p. 94-114. *In* D.M. Sylvia, J.J. Fuhrmann, P.G. Hartel, and D.A. Zuberer (ed.) Principles and applications of soil microbiology. Prentice Hall, Upper Saddle River, NJ.

Albrecht, S.L., H.L.M. Baune, P.E. Rasmussen, and C.L. Douglas, Jr. 1997. Light fraction soil organic matter in long-term agroecosystems. p. 38-43. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Agric. Exp. Stn., Oregon State University and USDA-ARS, Pendleton, OR.

Albrecht, S.L., C.L. Douglas, Jr., P.E. Rasmussen, and R.W. Smiley. 1997. Light fraction soil organic matter in long-term semi-arid agroecosystems. p. 203. *In* Agronomy abstracts. ASA, Madison, WI.

Albrecht, S.L., C.L. Douglas, Jr., R.W. Rickman, and P.E. Rasmussen. 1998. Research on soil quality with different tillage systems in northeast Oregon. p. 132-136. *In* R. Veseth (ed.) Proc. NW Direct Seed Intensive Cropping Conference. Jan. 7-8, Pasco, WA.

Ball, D.A., A.G. Ogg, Jr., and P.M. Chevalier. 1997. The influence of seeding rate on weed control in small-red lentil. Weed Science 45(2):296-300.

Ball, D.A., and D.L. Walenta. 1998. Downy brome control with sulfosulfuron tankmixes. p. 165. West. Soc. Weed Sci. Prog. Rpt..

Ball, D.A., and D.L. Walenta. 1998. Imazamox carry-over to barley, canola, and spring wheat. West. Soc. Weed Sci. Prog. Rpt. p. 71.

Ball, D.A., and D. Singh. 1998. Tolerance of fall planted seedling Kentucky bluegrass to primisulfuron. p. 112. West. Soc. Weed Sci. Prog. Rpt.

Ball, D.A., and D. Singh. 1998. Tolerance of spring planted seedling Kentucky bluegrass to primisulfuron. p. 111. West. Soc. Weed Sci. Prog. Rpt.

Chambers, J.P., J.M. Sabatier and R.W. Rickman. 1997. Investigating surface roughness by acoustic techniques. p. 180. *In* Agronomy abstracts. ASA, Madison, WI.

Douglas, C.L., Jr. 1997. Nitrogen effects on residue decomposition. p. 46. *In* Proceedings of the Pacific Division American Association for the Advancement of Science, Corvallis, OR.

Douglas, C.L., Jr. 1997. Nitrogen effects on residue decomposition. Appendx 3. p. 3. *In* Agronomy abstracts. ASA, Madison, WI.

Douglas, C.L., Jr., S.L. Albrecht, and R.W. Rickman. 1997. Carbon dioxide loss from tilled and untilled soil in the Pacific northwest. p. 278. *In* Agronomy abstracts. ASA, Madison, WI.

Douglas, C.L., Jr., J.D. Williams, and D.E. Wilkins. 1997. Nutrients in runoff from frozen soils in the dryland areas of the Pacific Northwest. p. 130. *In* Abstracts from the 11th World Fertilizer Congress. Gent, Belgium.

Douglas, C.L., Jr., P.E. Rasmussen, H.P. Collins, and S.L. Albrecht. 1998. Nitrogen mineralization across a climosequence in the Pacific Northwest. Soil Biol. & Biochem. Accepted.

Gandah, M., and W.A. Payne. 1997 (In press). Water management under rainfed conditions in the Sahel: The case of Niger. International symposium on "Recent advances in management of arid ecosystems, 3-5 March 1997, Jodhpur, Radjasthan, India. CAZRI (Jodhpur) and ICRISAT (Patancheru), India. ICRISAT Asia Center, India. Patancheru, A.P. 502 324 India.

Gourley, L.M., C.E. Watson, R.E. Schaffert, and W.A. Payne. 1997 (In press). Genetic resistance to soil chemical toxicities and deficiencies. International Conference for Genetic Improvement of Sorghum and Millet, 23-27 September 1996. Lubbock, Texas. ASA, Madison WI.

Kamuru, F., S.L. Albrecht, L.H. Allen, Jr., and K.T. Shanmugam. 1997. Growth and accumulation of 15N in rice inoculated with the parent and a nitrogenase-derepressed mutant strain of *Anabaena variabilis*. Applied Soil Ecology 5:189-195.

Karow, R., R. Line, and D. Smiley. 1996. Karnal bunt: Cereal disease causes worry. Oregon Wheat 47(4):6-9.

Karow, R., and D. Smiley. 1996. Physiologic leaf spot—Researchers look closely at wheat malady. Oregon Wheat 47(7):10-11.

Karow, R., and D. Smiley. 1996. Karnal bunt update: No easy answers found. Oregon Wheat 47(11):10-11.

Klepper, B, R.W. Rickman, S.E. Waldman, and D.A. Ball. 1997. Use of Growing

Degree Days to Time Root Developmental Events in the Gramineae. p. 282. *In*: Arie Altman, and Yoav Waisel (ed.) Biology of root formation and development. Basic Life Sciences. Volume 65. Plenum Press, New York.

Klepper, B., R.W. Rickman, S.E. Waldman, and P. Chevalier. 1998. The physiological life cycle of wheat: Its use in breeding and crop management. p. 420-425. In H.J. Braun, F. Altay, W.E. Kronstad, S.P.S. Beniwal and A. McNab, (ed.) Wheat: **Prospects** for Golbal Improvement. Proceedings 5th International Wheat Conference. 10-14 June 1996, Ankara, Turkey. Kluwer Academic Pub., Norwel MA, USA.

Mazzola, M., R.W. Smiley, A.D. Rovira, and R.J. Cook. 1996. Characterization of Rhizoctonia isolates, disease occurrence and management in cereals. p. 259-267. *In* B. Sneh, S. Jabaji-Hare, S. Neate, and G. Dijst. (ed.) Rhizoctonia species: taxonomy, molecular biology, ecology, pathology, and control. Kluwer Academic Publishers, The Netherlands.

Pan, W.L., D.R. Huggins, G.L. Malzer, C.L. Douglas, Jr., and J.L. Smith. 1997. Variable soil-plant N relationships: Implications for N management of dryland landscapes. Appendix 3. p. 3. Agronomy abstracts. ASA, Madison, WI.

Pan, W.L., D.R. Huggins, G.L. Malzer, C.L. Douglas, Jr., and J.L. Smith. 1997. Variable soil-plant N relationships: Implications for N management of dryland landscapes. p. 59. *In* Proceedings of the Pacific Division, American Association for the Advancement of Science, Corvallis, OR.

Payne, W.A., P.E. Rasmussen, and R. Goller. 1997. Major Factors influencing wheat yield improvement during the last thirty years. p. 43-46. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Agric. Exp. Stn., Oregon State Univ. and USDA-ARS, Pendleton, OR.

Payne, W.A., J.H. Williams, M.M. Keitella, and R.D. Stern. 1998 (In press). Crop diversification in the Sahel through use of environmental changes near *Faidherbia Albida (Del.) A. Chev.* Crop Science.

Rasmussen, P.E. 1997. Effect of available water on winter wheat yield. p. 261. *In* Agronomy abstracts. ASA, Madison, WI.

Rasmussen, P.E. 1997. Nutrient management considerations in the Columbia Basin dryland wheat production areas. p. 212-219. *In* T.A. Tindall and D.T. Westermann (ed.) Proc. Western Nutrient Management Conf. Vol. 2. Univ. of Idaho, Moscow, ID.

Rasmussen, P.E. and S.L. Albrecht. 1997. Crop management effects on organic carbon in semi-arid Pacific Northwest soils. p. 209-219. *In* R. Lal, J.M. Kimble, R.F. Follett, and B.A. Stewart (ed.) Management of carbon sequestration in soil. CRC Press.

Rasmussen, P.E., C.L. Douglas, Jr., H.P. Collins, and S.A. Albrecht. 1998. Long-term cropping systems effects on mineralizable nitrogen in soil. Soil Biol. & Biochem. Accepted.

Rasmussen, P.E., and R.H. Goller. 1997. Winter wheat response to nitrogen, sulfur, phosphorus, and micronutrients. p. 77-81. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Agric. Exp. Stn.,

Oregon State Univ. and USDA-ARS, Pendleton, OR.

Rasmussen, P.E., R.W. Rickman, and E.L. Klepper. 1997. Residue and fertility effects on yield of no-till wheat. Agron. J. 89:563-567.

Rasmussen, P.E., R.W. Smiley, and S.L. Albrecht. 1996. Pendleton residue management. p. 133-135. *In* P. Smith, J.U. Smith, and D.S. Powlson (ed.) Soil Organic Matter Network (SOMNET): 1996 model and experimental metadata. GCTE Rept. no. 7. GCTE Focus 3 Office, Wallingford, UK.

Rasmussen, P.E., R.W. Smiley, and C.L. Douglas, Jr. 1997. Nitrogen utilization in long-term agricultural experiments at Pendleton, Oregon. Append. 3:3. *In* Agronomy abstracts, ASA Madison, WI.

Rasmussen, P.E., R.W. Smiley, and C.L. Douglas, Jr. 1997. Nitrogen utilization in long-term agricultural experiments at Pendleton, Oregon. p. 61. Proc. Pacific Div. Am. Assoc. Adv. Sci. Vol. 16, Part 1. Oregon State Univ., Corvallis, OR.

Rickman, R.W., C. Huang, and J.M. Sabatier. 1997. Acoustic monitoring of soil surface roughness decay after rainfall. p. 180. *In* Agronomy abstracts. ASA, Madison, WI.

Rickman, R.W., J.D. Williams, C.F. Clifton, and M. Purser. 1997. Contributions to the establishment of TMDL values for the Umatilla River watershed. p. 20-25. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Agric. Exp. Stn., Oregon State Univ., USDA-ARS, Pendleton, OR.

Sabatier, J.M., R. Raspet, G. Nock, and R.W. Rickman. 1997. Absorption of sound in media with uniform and non-uniform pore size distributions. p. 179. *In* Agronomy abstracts. ASA, Madison, WI.

Schillinger, W.F. and D.E. Wilkins. 1996. Ripping fall-planted wheat after fallow to reduce runoff from frozen soils. p. 276. *In* Agronomy abstracts. ASA, Madison, WI.

Smiley, R.W. 1996. Diseases of wheat and barley in conservation cropping systems of the semi-arid Pacific Northwest. Amer. J. Alternative Agric. 11:95-103.

Smiley, R.W. 1997. Karnal bunt and its risk to the Pacific Northwest. p. 30-37. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Oregon Agr. Exp. Stn., Oregon State Univ. and USDA-ARS, Pendleton, OR.

Smiley, R.W. 1997. Rhizoctonia diseases and their management in cereals. p. 52-58. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Annual Report. Special Report 977. Oregon Agr. Exp. Stn. Spec. Oregon State Univ. and USDA-ARS, Pendleton, OR.

Smiley, R.W. 1997. Rhizoctonia root rot, seed rot, and damping-off. p. 16-18. *In* D.E. Mathre (ed.) Compendium of barley diseases. 2nd ed. Amer. Phytopathol. Soc., St. Paul, MN.

Smiley, R.W. 1997. Risk assessment for Karnal bunt occurrence in the Pacific Northwest. Plant Dis. 81:689-692.

Smiley, R.W. 1997. Sharp eye spot. p. 15-16. *In* D.E. Mathre (ed.) Compendium of barley diseases. 2nd ed. Amer. Phytopathol. Soc., St. Paul, MN.

Smiley, R.W., and L.-M. Patterson. 1996. Pathogenic fungi associated with Fusarium foot rot of winter wheat in the semiarid Pacific Northwest USA. Plant Dis. 80:944-949

Smiley, R.W., L.-M. Patterson, and K.E.L. Rhinhart. 1996. Fungicide seed treatment effects on emergence of deeply planted winter wheat. J. Prod. Agric. 9:564-570.

Smiley, R.W., L.-M. Patterson, and K.E.L. Rhinhart. 1996. Fungicide seed treatment effects on emergence of deeply planted winter wheat. p. 85-96. *In* S.L. Albrecht (ed.) 1996 Columbia Basin Agricultural Research Annual Report. Special Report 961. Oregon Agr. Exp. Stn., Oregon State Univ. and USDA-ARS, Pendleton, OR.

Smiley, R.W., L.-M. Patterson, and C.W. Shelton. 1996. Fungicide seed treatments influence emergence of winter wheat in cold soil. J. Prod. Agric. 9:559-563.

Smiley, R.W., L.-M. Patterson, and C.W. Shelton. 1996. Fungicide seed treatments influence emergence of winter wheat in cold soil. p. 52-58. *In* S.L. Albrecht (ed.) 1996 Columbia Basin Agricultural Research Annual Report. Special Report 961. Oregon Agr. Exp. Stn., Oregon State Univ. and USDA-ARS, Pendleton, OR.

Subbarao, G.V., C.R. Renard, A.B. Bationo, and W.A. Payne. 1998 (In press). Long-term effects of tillage, P fertilization and crop rotation on a pearl millet productivity in West Africa. Expl Agric.

Waldman, S.E., M.R. Guzy, G.S. Mcmaster, R.W. Rickman, and W.W. Wilhelm. 1997. Applications and contrasts of development driven wheat growth models. p. 23. *In* Agronomy abstracts. ASA, Madison, WI.

Wilkins, D.E. and D.A. Ball. 1997. Effect of crop residue on *Bromus tectorum* emergence. p. 677-680. *In* Proceedings 14th International Soil and Tillage Research Organization Conference. Pulawy, Poland, 27 July -1 August 1997.

Wilkins, D.E. and B. Whitten. 1997. Effect of tillage on downy brome seed distribution. p. 26-29. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Report. Special Report 977. Agric. Exp. Stn., Oregon State Univ. and USDA-ARS, Pendleton, OR.

Wilkins, D.E., and J.D. Williams. 1997. Tillage system for mechanical weed control and wheat residue management. Paper No. 97-1003. Amer. Soc. of Agric. Engr. St. Joseph, MI.

Williams, J.D., D.E. Wilkins, C.L. Douglas, and R.W. Rickman. 1997. Winter erosion in residue management systems: four Preliminary report. p. 73-76. In J.D. Williams (ed.) 1997 Columbia Basin Research Agricultural Report. Special Report 977. Agric. Exp. Stn., Oregon State Univ., and USDA-ARS, Pendleton, OR.

Williams, J.D., D.E. Wilkins, W.F. Schillinger. 1997. Erosion and crop response to contour-ripped planted-wheat in seasonally frozen soil in the Pacific Northwest. p. 62-65. *In* I.K. Iskandar, E.A.

Wright, J.K. Radke, B.S. Sharratt, P.H. Groenevelt, and L.D. Hinzman (ed.), Proceedings of the International Symposium on Physics, Chemistry, and Ecology of Seasonally Frozen Soils, 10-12 June 1997, Fairbanks, AK.

Winkle, T., J.F. Renno, and W.A. Payne. 1997 (In press). Effect of the timing of water deficit on growth, phenology and yield of pearl millet grown in Sahelian Conditions. Journal of Exp. Bot

Wysocki, D.J. 1998. Direct drilling and annual cropping in eastern Oregon. p. 46-47. *In* Proceeding Direct Drilling Conference, Pasco, Washington 6-8 January 1998. Washington State University, Pullman, WA.

Wysocki, D.J., S.M. Ott, D.E. Wilkins, and C.L. Douglas. 1996. Comparison of harvesting techniques on yield of winter Canola. *In* Proceedings Pacific Northwest Rapeseed/Canola Association Conference, Coeur d' Alene, Idaho, Agricultural Experiment Station, Montana State University, Bozeman, MT.

Wysocki, D.J., M.A. Stoltz and S.M. Ott. 1997. Yellow mustard production in semiarid Oregon. p. 82-86. *In* J.D. Williams (ed.) 1997 Columbia Basin Agricultural Research Report. Special Report 977. Oregon Agri. Exp. Stn. Oregon State Univ., and USDA-ARS, Pendleton, OR.